

(12) UK Patent Application (19) GB (11) 2 143 902 A

(43) Date of printing by UK Office 20 Feb 1985

(21) Application No 8423096

(22) Date of filing 20 Jan 1984

(30) Priority data

(31) 58/006588	(32) 20 Jan 1983	(33) JP
58/024929	22 Feb 1983	
58/030502	25 Feb 1983	
58/028866	28 Feb 1983	
58/028867	28 Feb 1983	

(86) International application data
PCT/JP84/00013 Jp 20 Jan 1984

(87) International publication data
WO84/02954 Jp 2 Aug 1984

(71) Applicant
Honda Giken Kogyo Kabushiki Kaisha (Japan),
27-8 Jingumae 6-chome, Shibuya-ku, Tokyo 150,
Japan

(72) Inventors
Naomoto Uesugi,
Shoji Suzuki

(51) INT CL³ (As given by ISA)
F01N 1/24 1/10

(52) Domestic classification
F1B F214 F221 F222 F223 F230 F232 F233 F236 F256
F257 F320 FB FH
F2X 7D3 7K 7X7
U1S 1825 1946 1958 F1B F2X

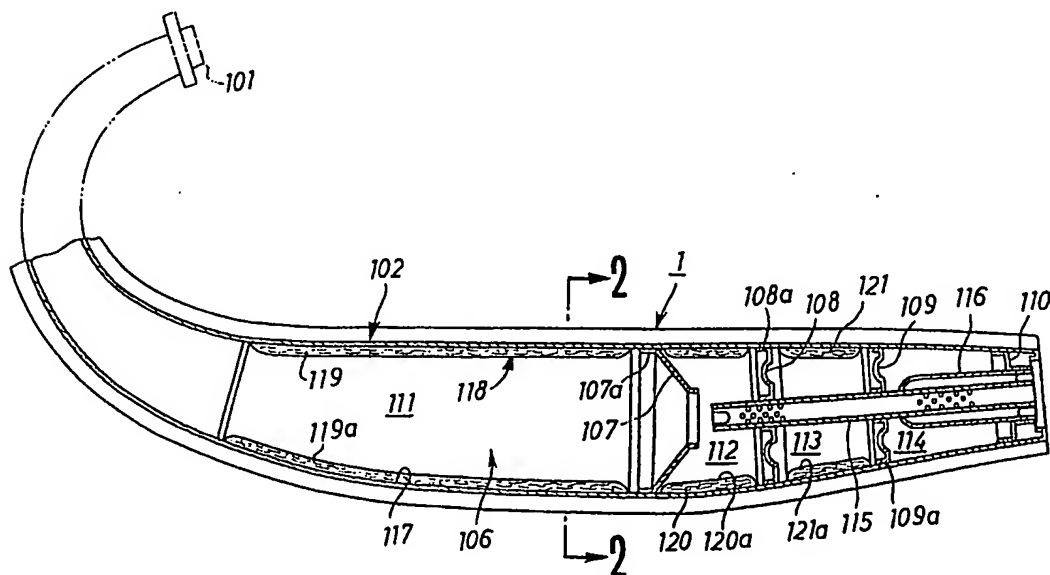
(56) Documents cited by ISA
JP A 58-79891 JP Y2 54-29393
JP Y2 57-48592 JP Y2 53-22661
JP U 56-83620 JP A 52-92902
JP B2 56-07974 JP Y1 47-24549
JP A 56-64114 US 3233697
JP U 55-71142

(58) Field of search by ISA
INT CL F01N 1/24, 1/10, 7/14, 7/16; C04B 43/00; G10K
11/16
including Jitsuyo Shinan Koho 1926-1983
Kokai Jitsuyo Shinan Koho 1971-1983

(74) Agent and/or Address for Service
Hasekine Lake & Co., 28 Southampton Buildings,
Chancery Lane, London WC2A 1AT

(54) Heat and sound insulating apparatus

(57) A heat and sound insulating apparatus comprises a heat and sound insulating member constituted by a laminated structure formed by mixing ceramic fibers into long glass fibers. The inner surface of the member is completely exposed in an exhaust passage. The heat and sound insulating apparatus has an improved heat insulating effect, soundproofing effect and durability.



GB 2 143 902 A